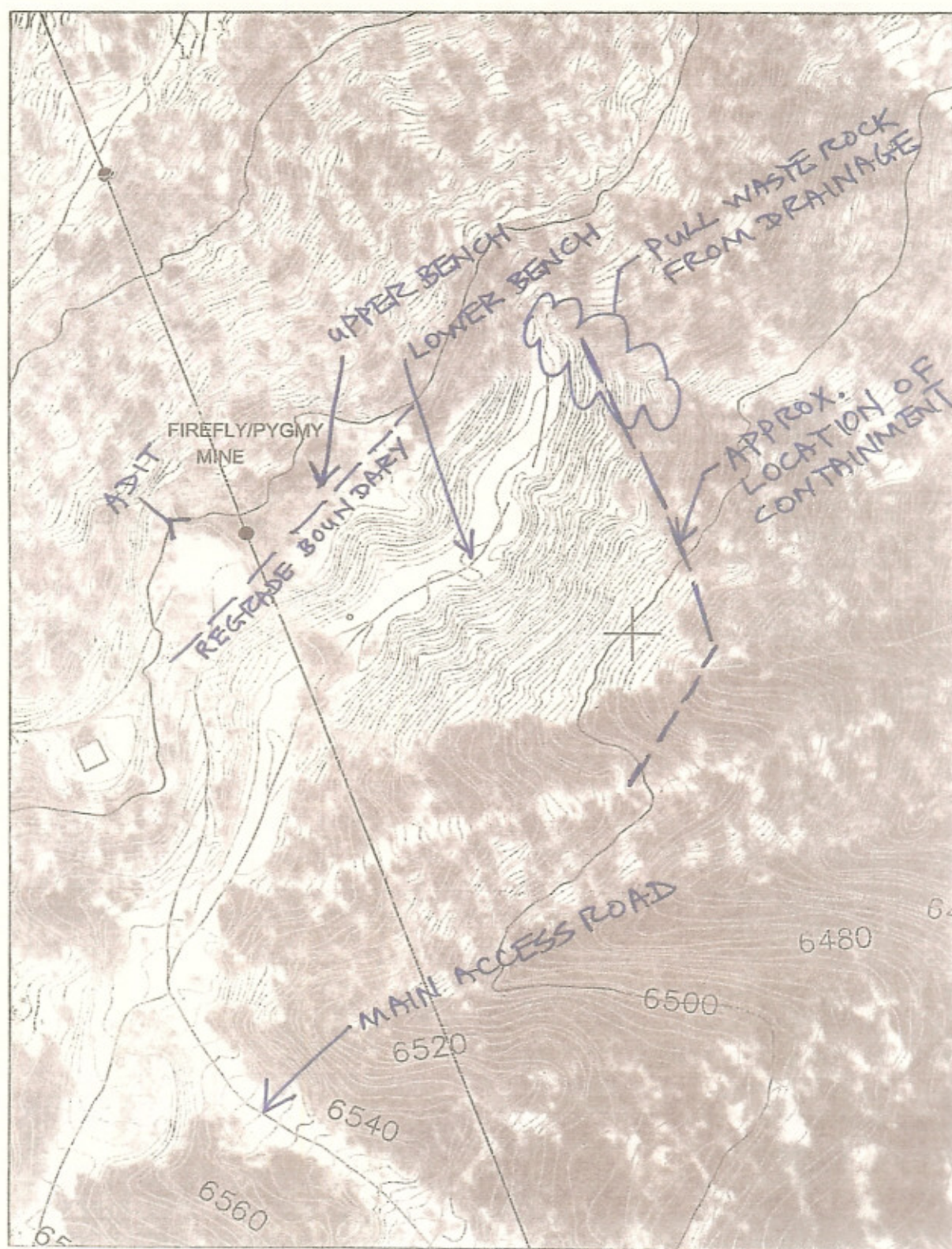


Appendix D





REMOVAL ACTION ALTERNATIVES – GENERAL SITE MAPS AND SKETCHES

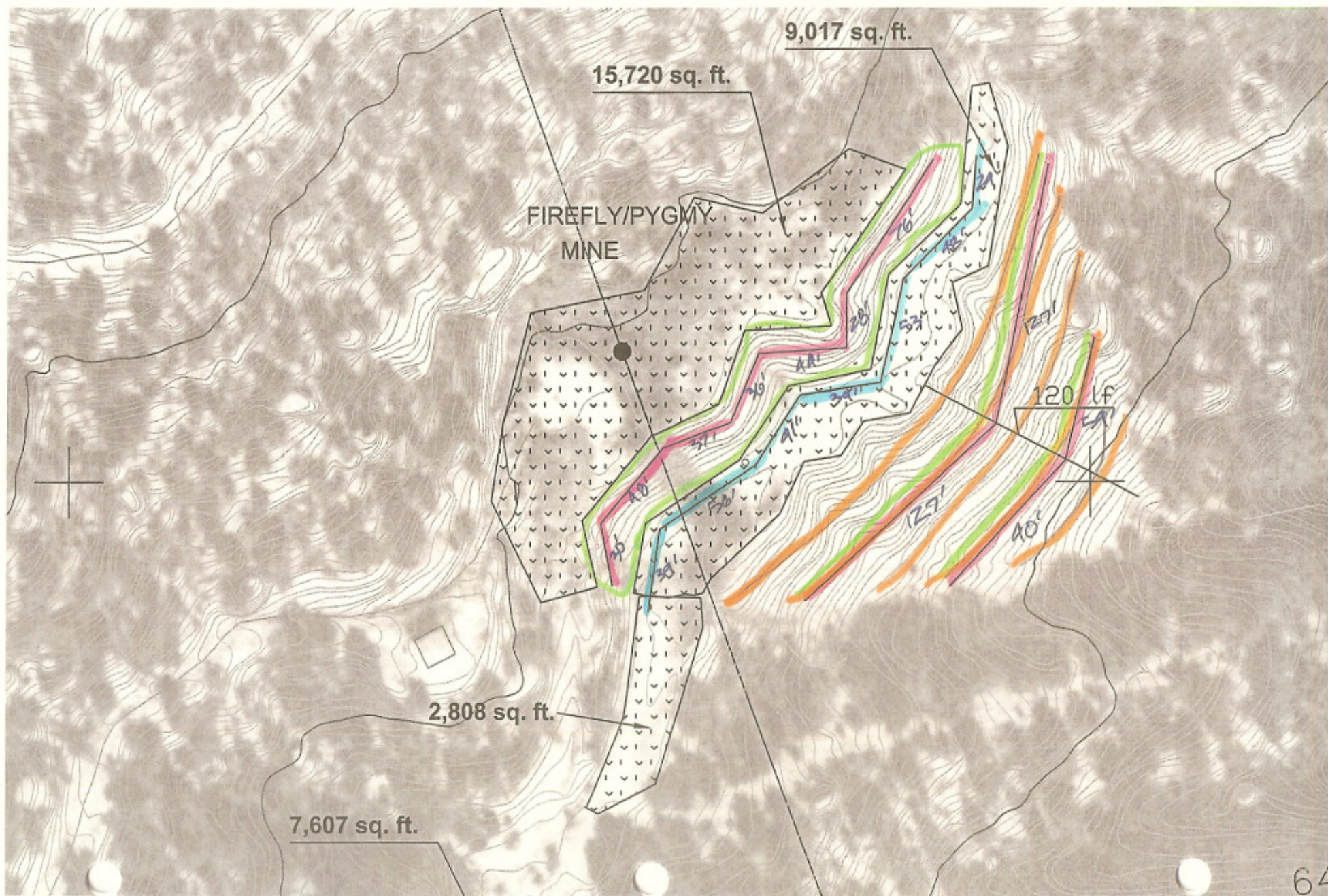
1. Fire Fly Site Sketch For Regrading & Containment Structures
2. Fire Fly Site Sketch For Adit Drainage Route
3. Fire Fly Site Sketch For Erosion Control Structures
4. Vanadium Queen Site Sketch For Regrading & Containment Structures
5. Vanadium Queen Site Sketch For Adit Drainage Route
6. Blue Cap & Black Hat Site Sketches For Containment Structures
7. Blue Cap & Black Hat Site Sketches For Regrading & Erosion Control Structures (2 part)
8. Blue Cap Site Sketch For Treatment Cell Location & Adit Drainage Route
9. Blue Cap ZVI Vessel Sketch
10. Blue Cap Containment Structure Section In Lion Canyon Creek (Upper Reach)
11. Blue Cap Containment Structure Section In Lion Canyon Creek (Lower Reach)
12. Structural Silt Fence Typical Detail Sketches
13. Containment Berm Typical Cross Section Sketch
14. Check Structure Typical Cross Section Sketch
15. Concrete Adit Closure Typical Elevation

FIREFLY Mine Alternative 1A



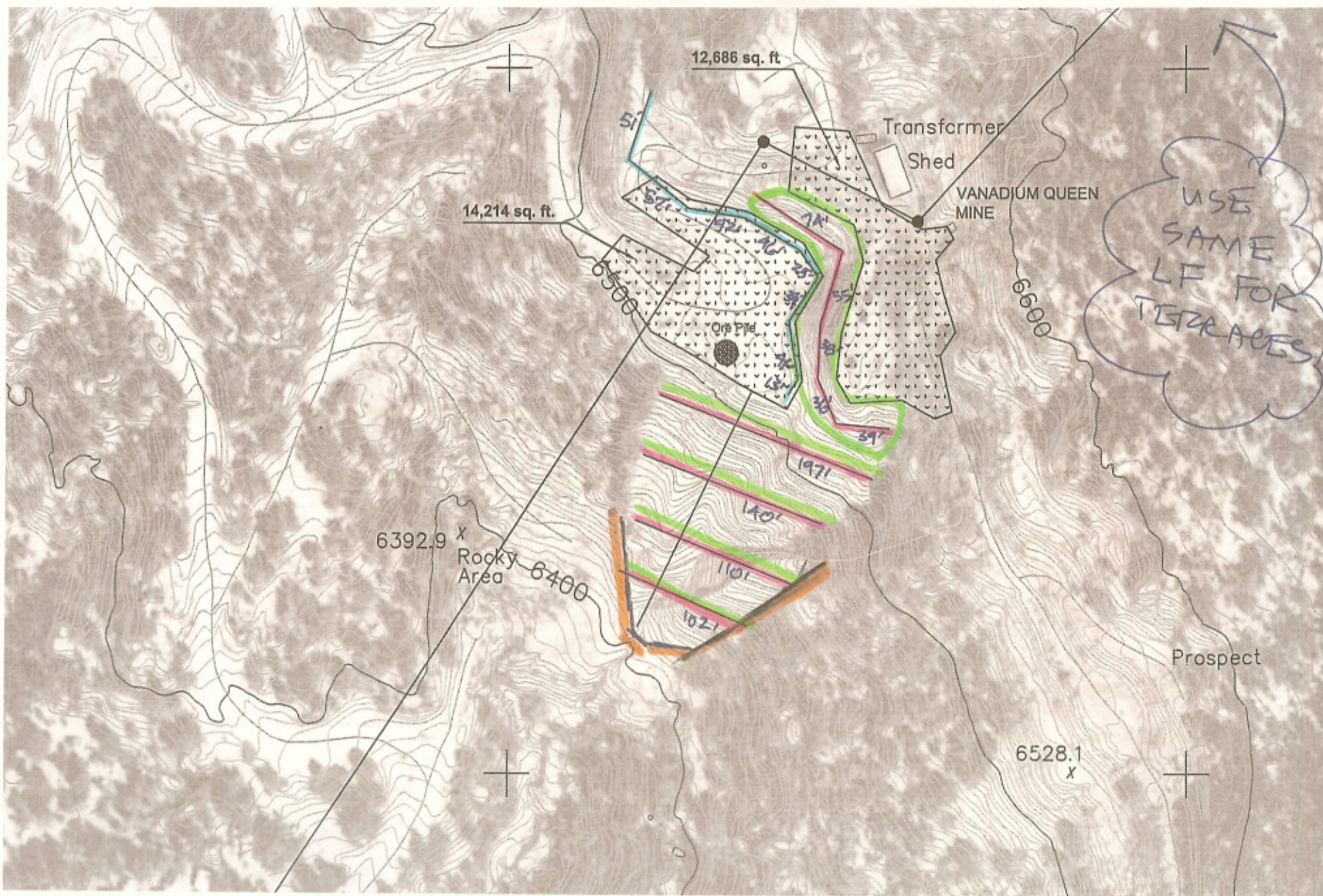
FIREFLY Mine Erosion Control Features

-  Diversion Ditch 300 lf
-  Jute Logs 652 lf
-  Revegetation 353 sf
-  Terraces (Alt. #3)

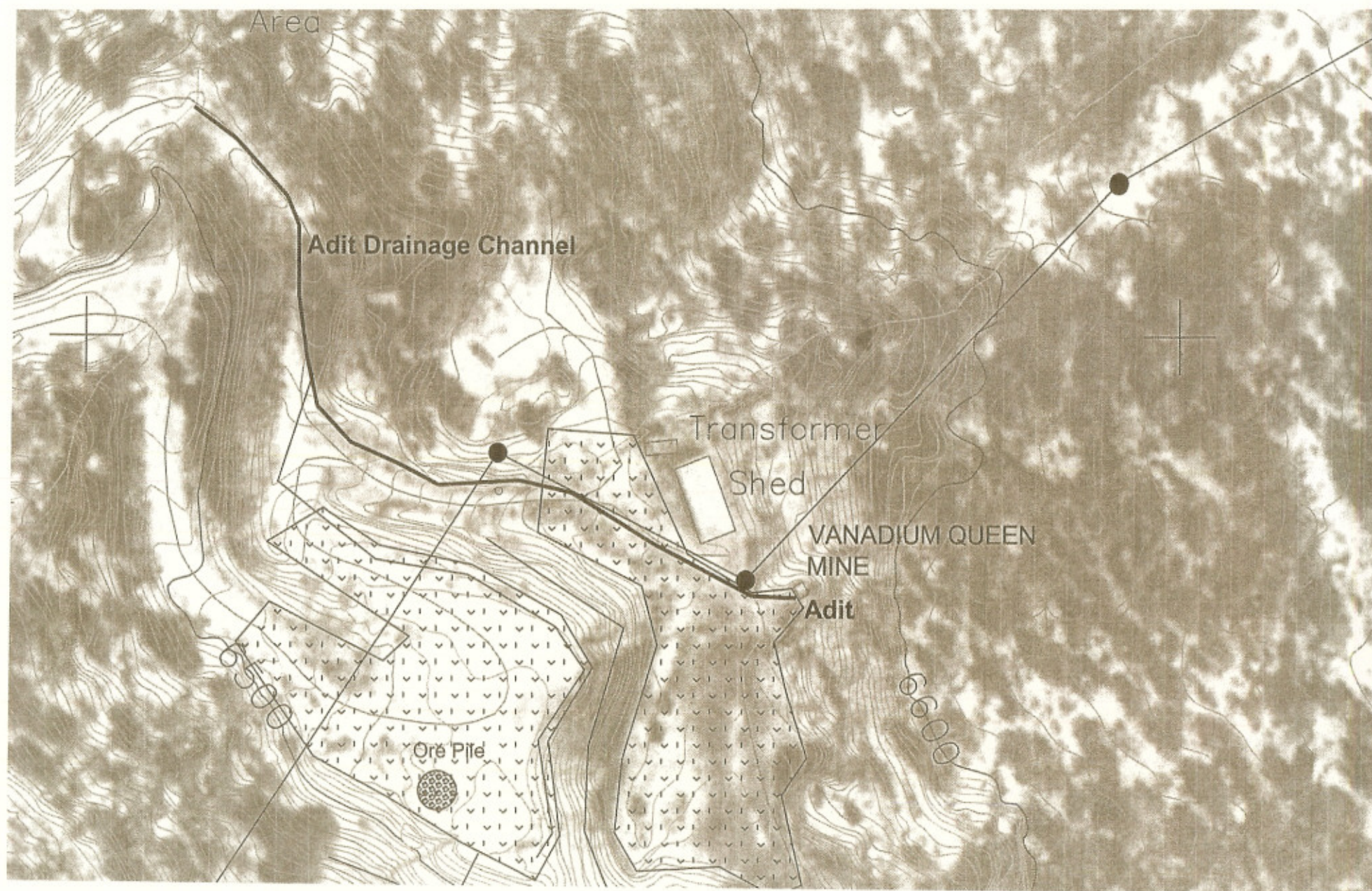


VANADIUM QUEEN Mine Erosion Control Features

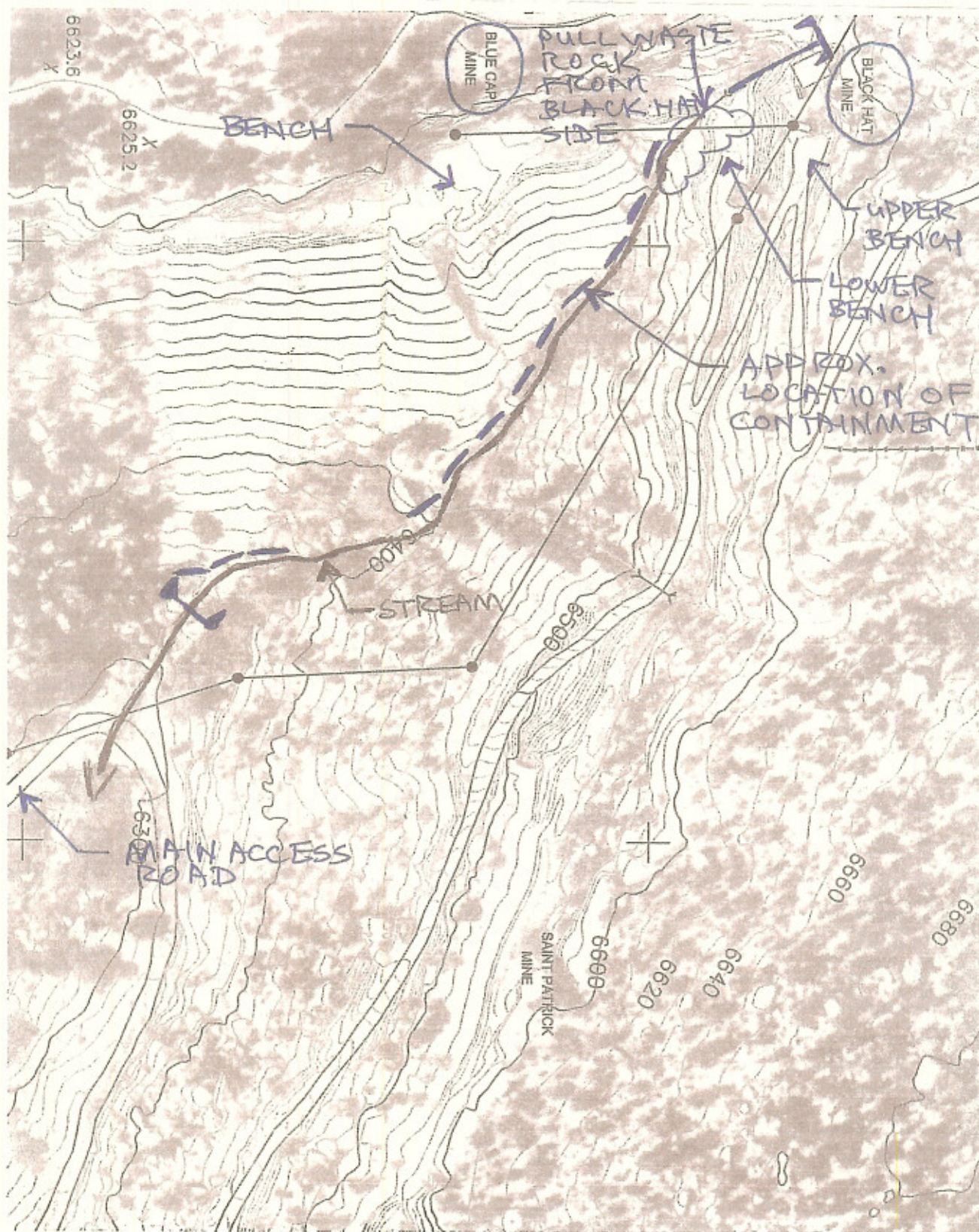
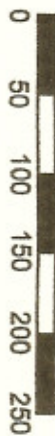
-  Diversion Ditch 314 lf
-  Jute Logs 791 lf
-  Revegetation 549 sf
-  Structural Silt Fence / Berm



VANADIUM QUEEN Mine Adit Drainage Channel Route

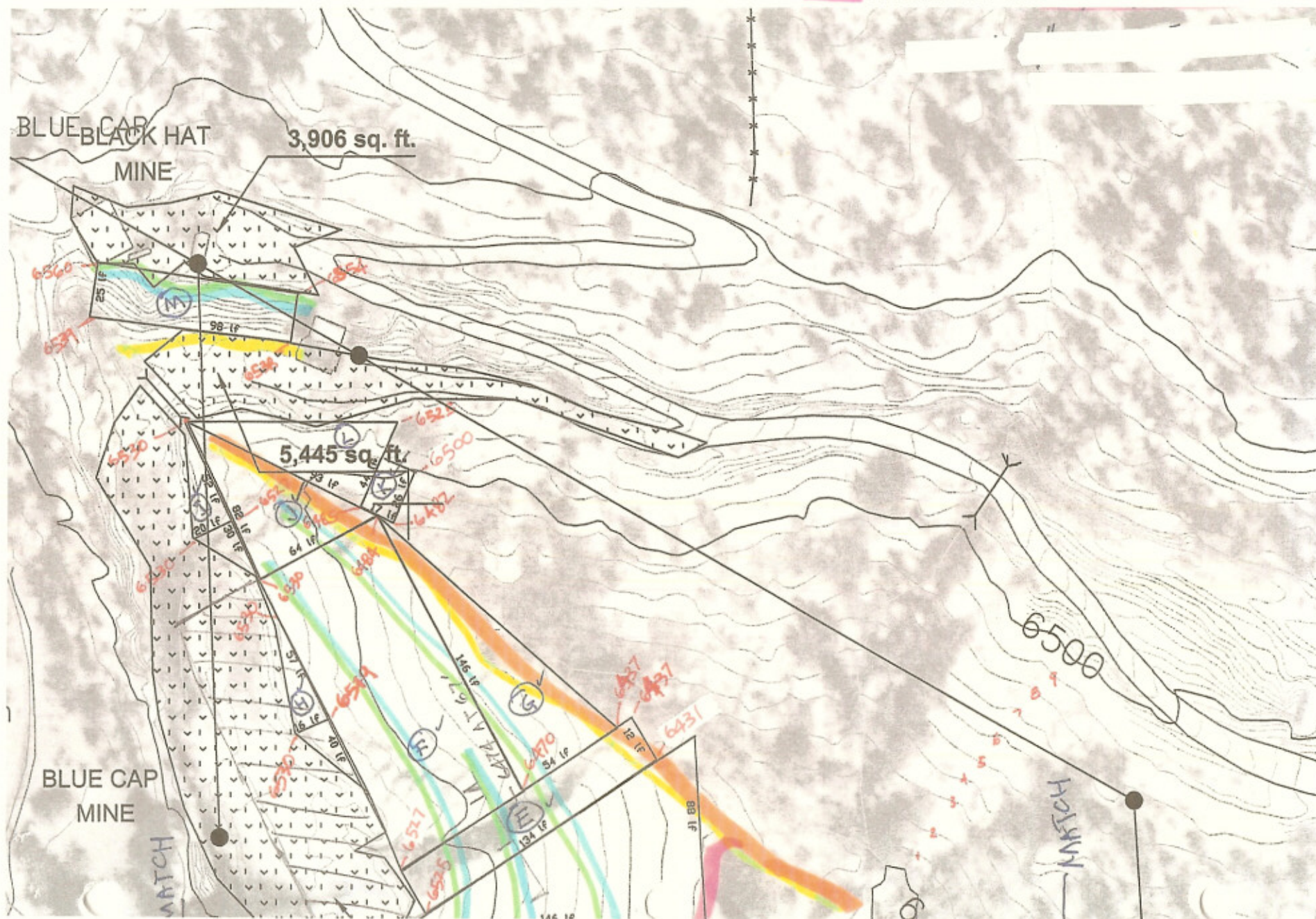


BLUE CAP Mine Alternative 1A



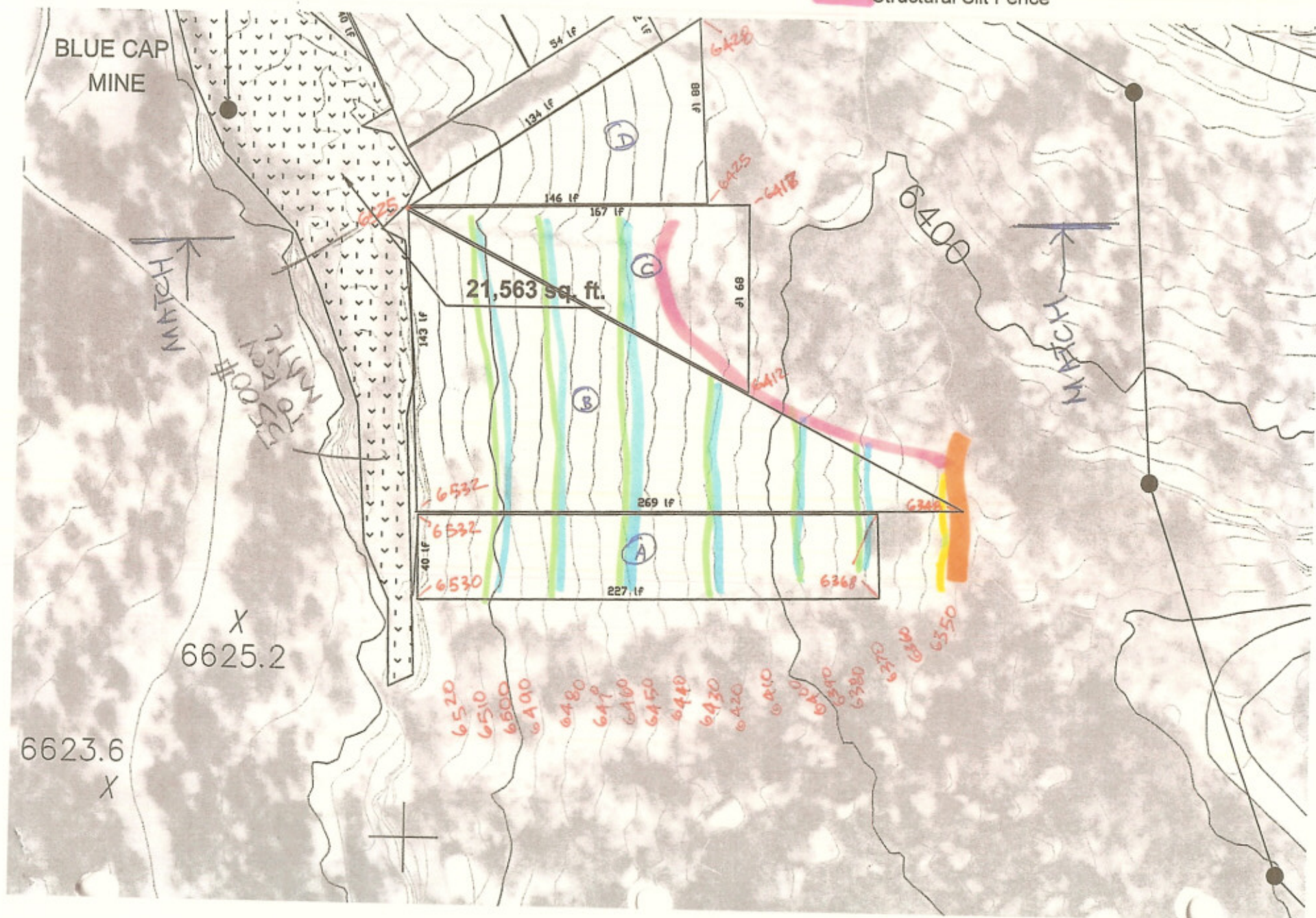
BLUE CAP & BLACK HAT Mines Erosion Control Features [1 of 2]

- "V" Ditch 460 lf
- Jute Logs 1400 lf
- Revegetation 549 sf
- Engineered Retaining Structure 465 lf
- Structural Silt Fence



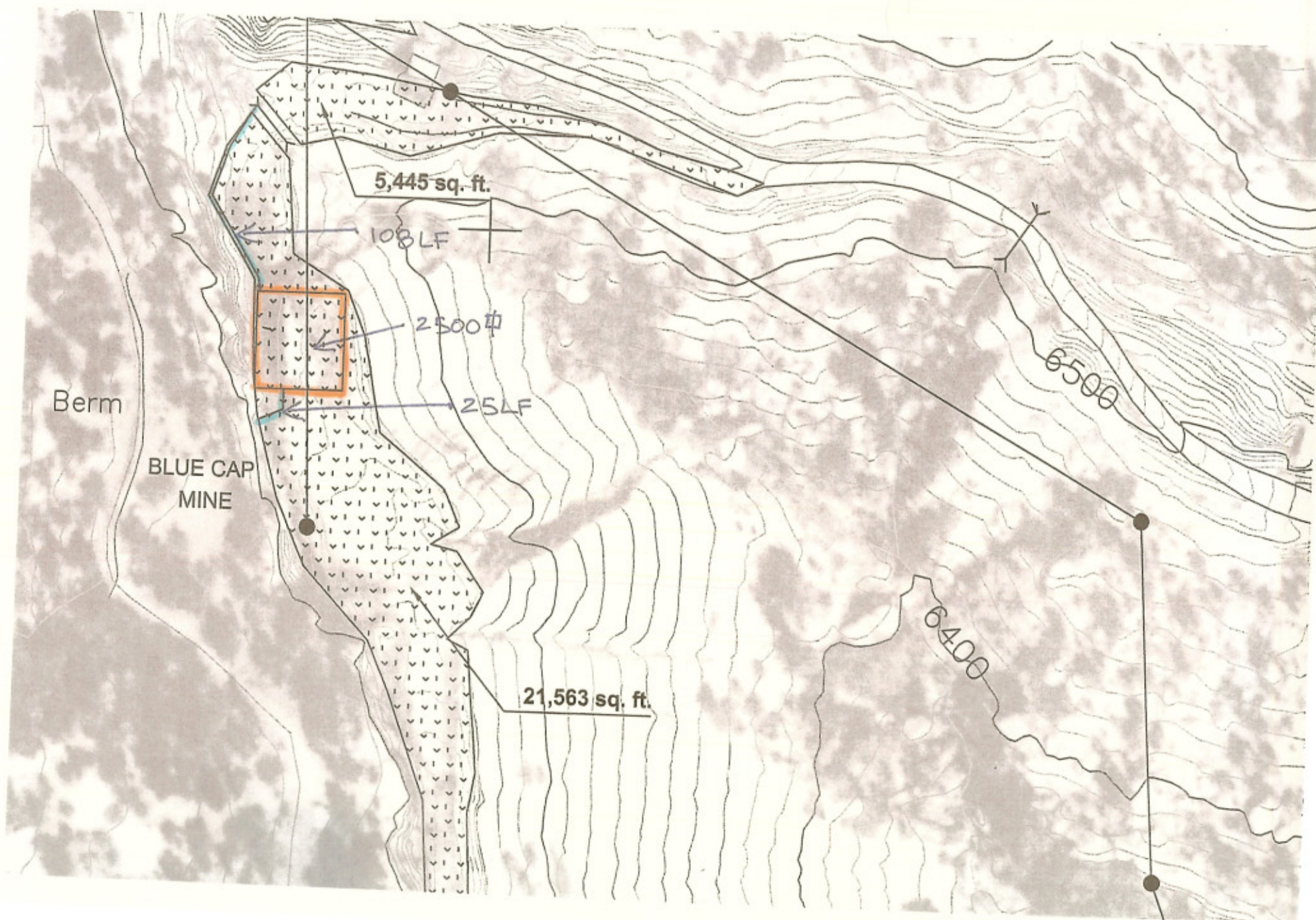
BLUE CAP & BLACK HAT Mines Erosion Control Features [2 of 2]

- "V" Ditch 460 lf
- Jute Logs 1400 lf
- Revegetation 549 sf
- Engineered Retaining Structure 465 lf
- Structural Silt Fence

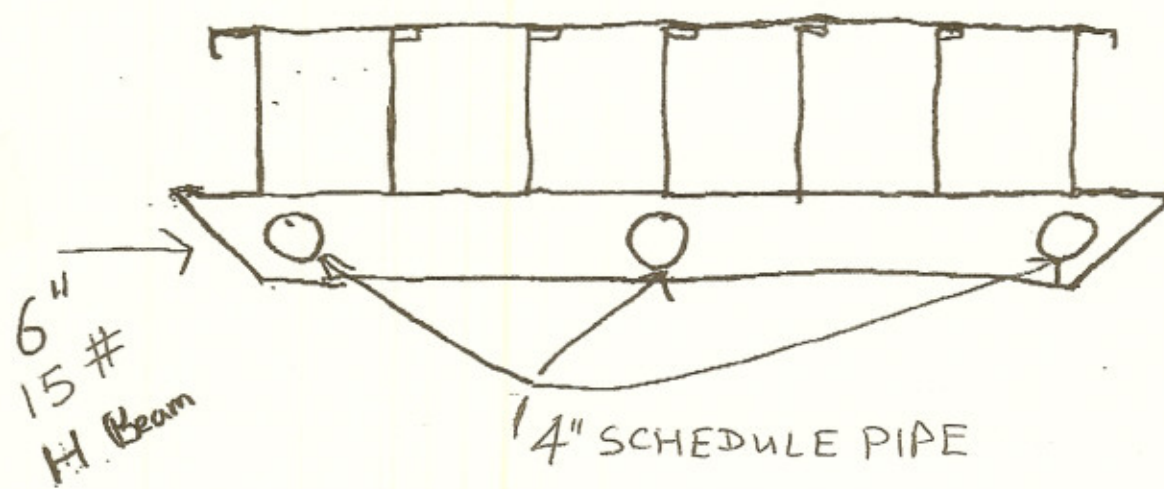
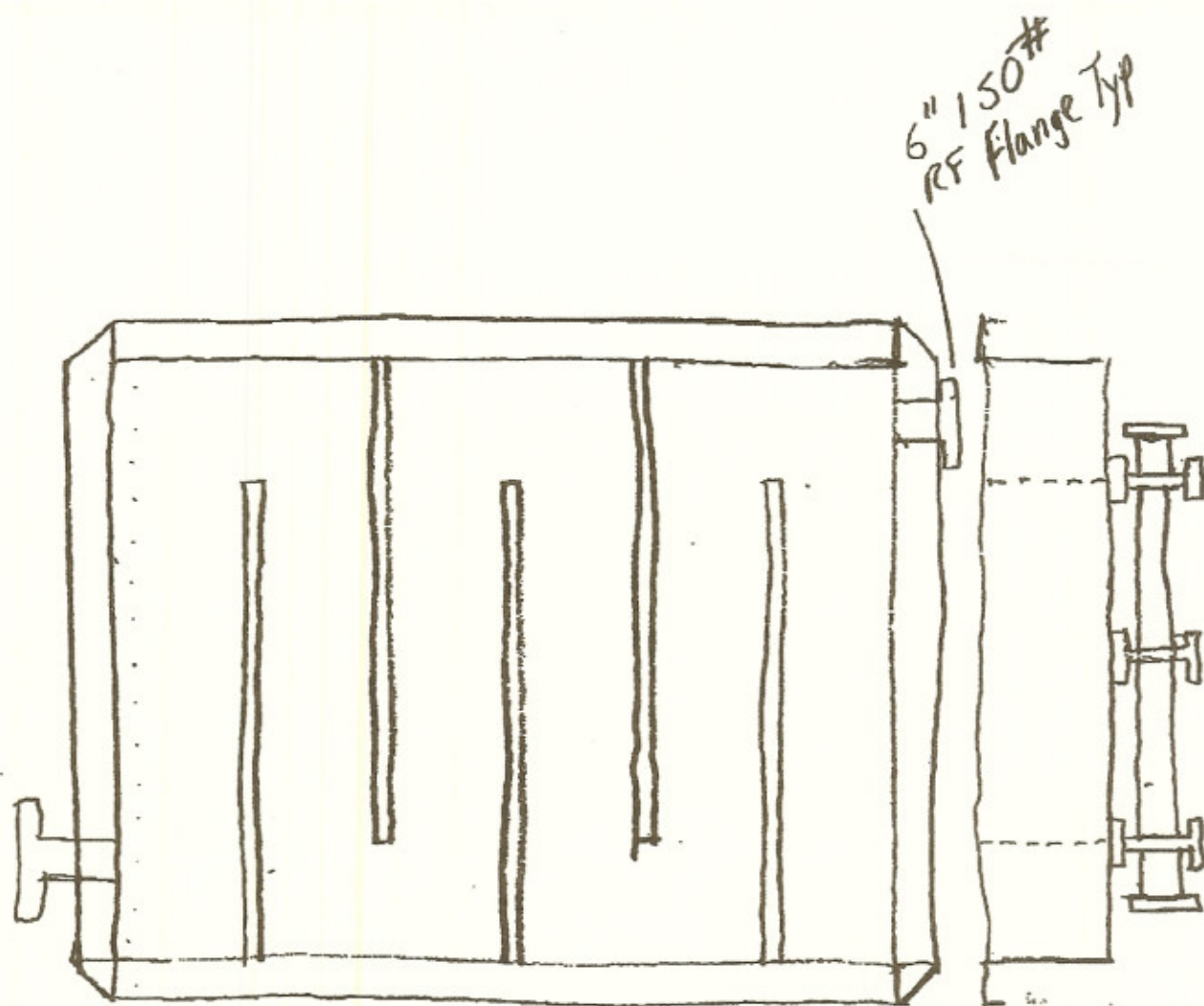


BLUE CAP Mine

Constructed Wetland 2500 sf
Water Route (Piped or Ditched)



BLUE CAP Mine ZVI Reactor Vessel Sketch



Subject Blue Gap & Back Hat

Project No. 2005-70-013

By DJ Bugar Checked By _____

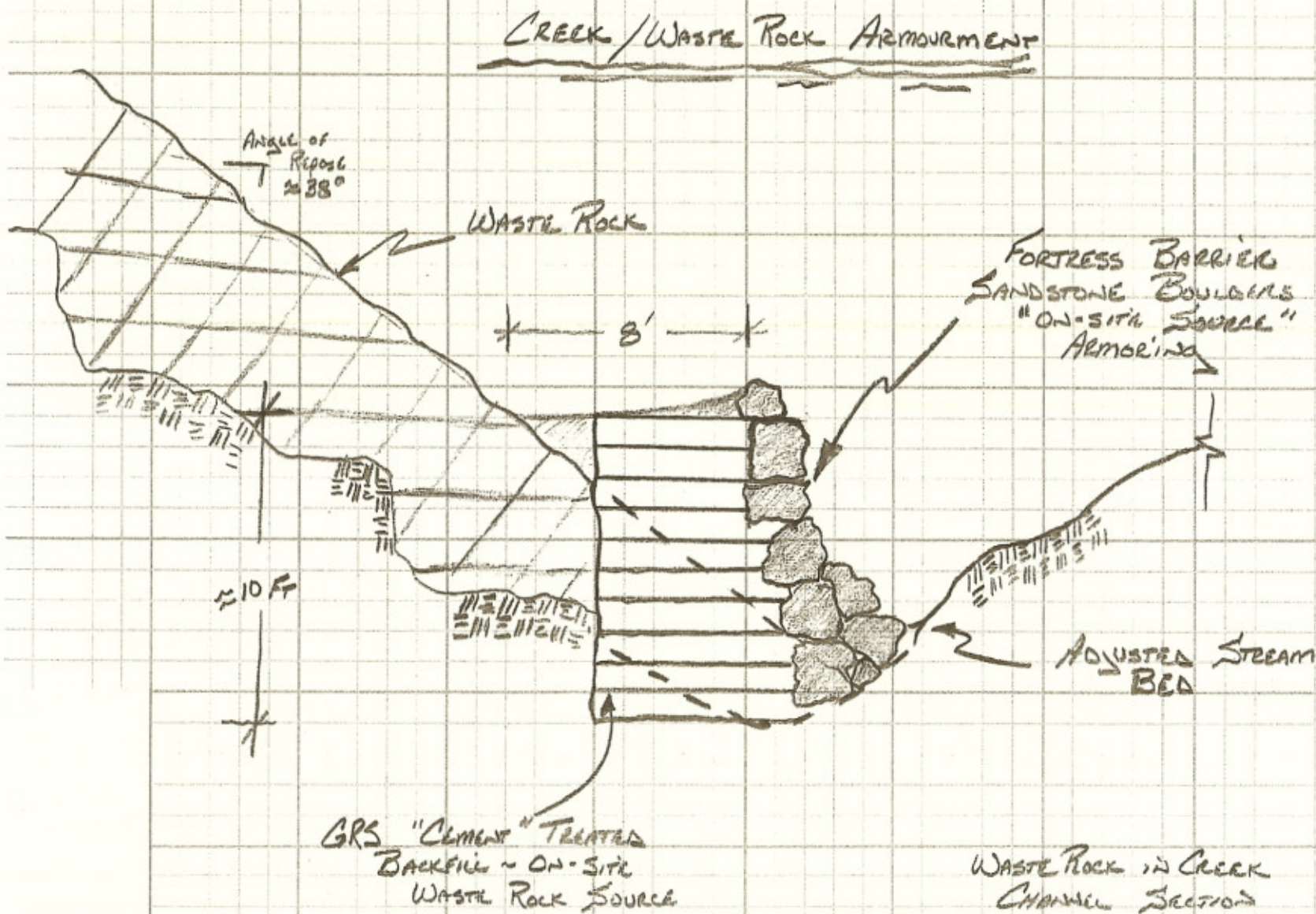
Task No. _____

Date 3-8-05

Date _____

File No. _____

Sheet 1 of 1



Subject Blue Cap & Black Hat

Project No. 2005-70-013

By AD Bueger Checked By _____

Task No. _____

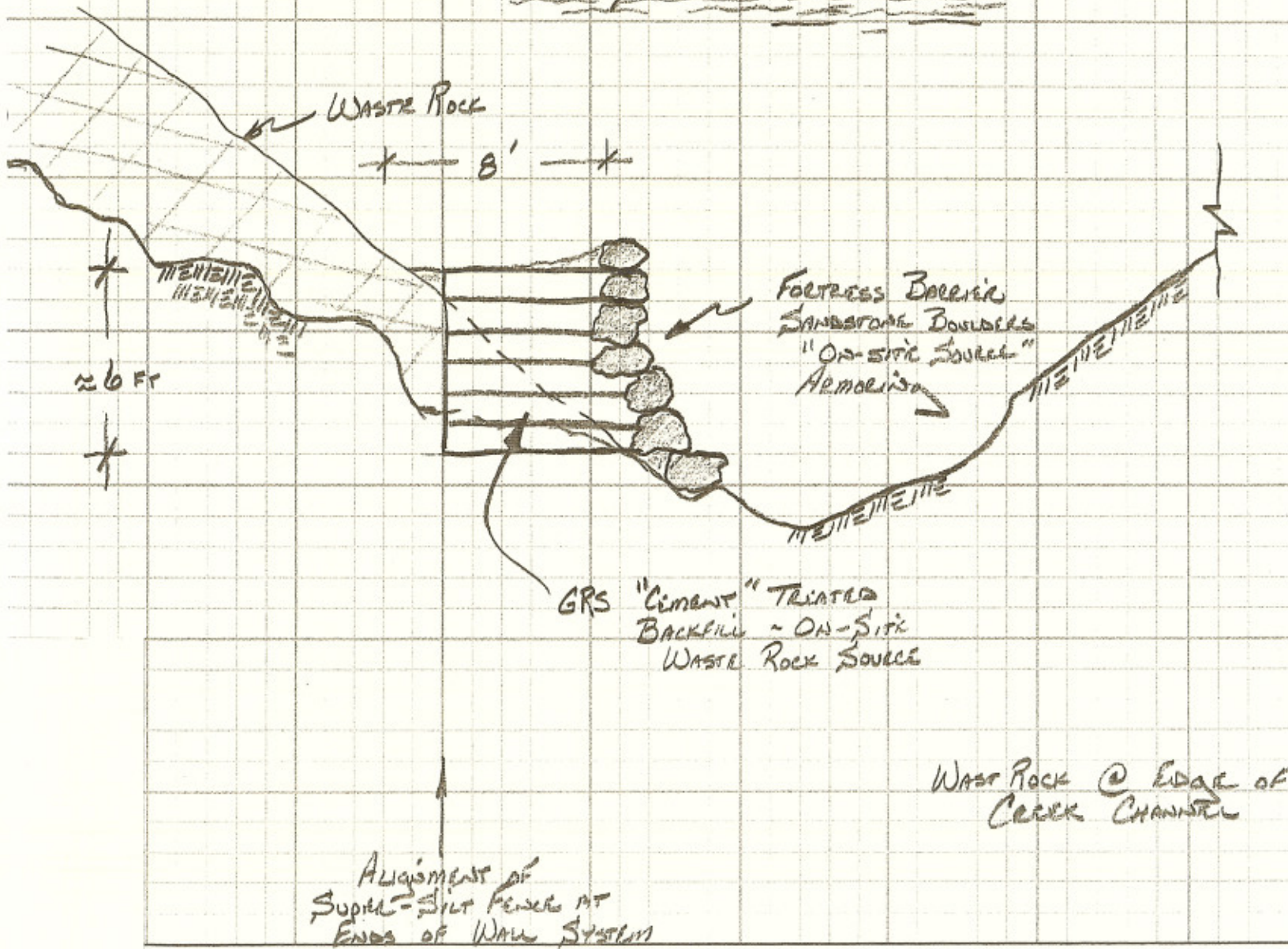
Date 3-8-05

Date _____

File No. _____

Sheet 1 of 1

CREEK/WASTE ROCK ARMOURMENT





Au' Autham Ki, Inc.

General Contractors/Construction Management
665 E. Morelos St. • Suite 101 • Chandler, Arizona 85225
(480) 497-1997 Fax: (480) 377-1143

JOB SUPER SILT FENCE

SHEET NO. _____

OF _____

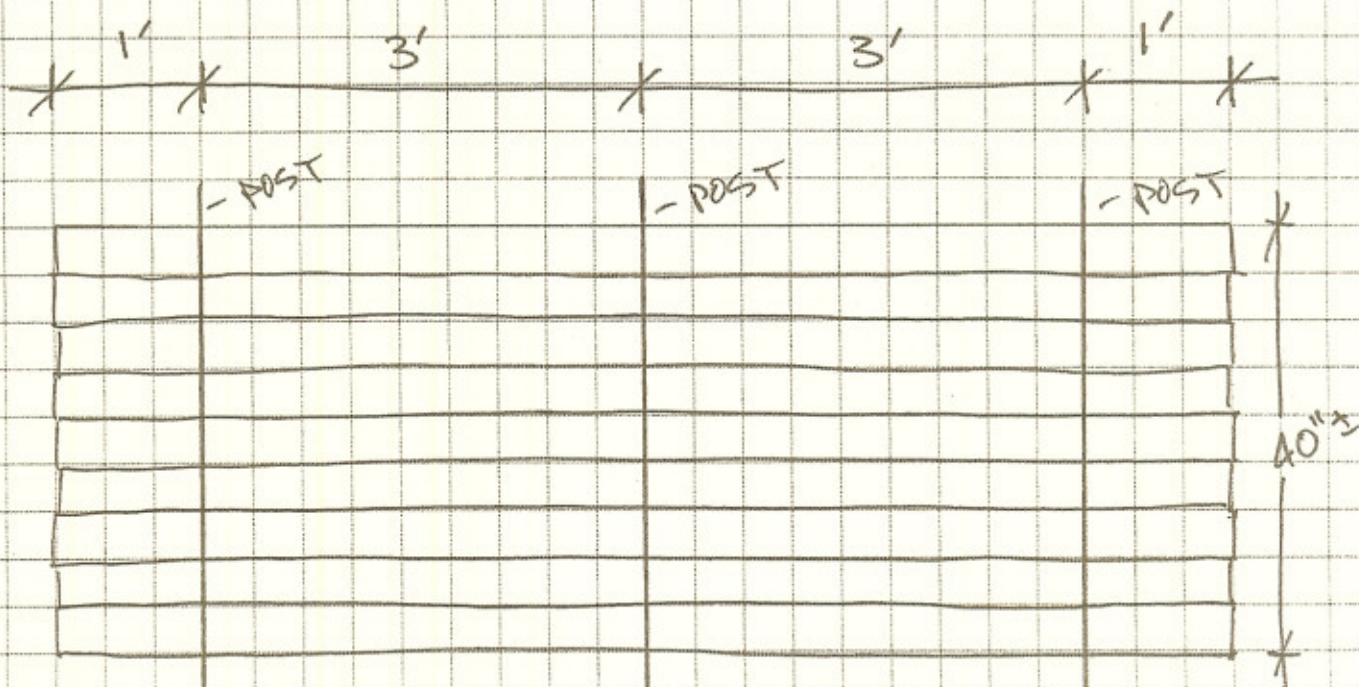
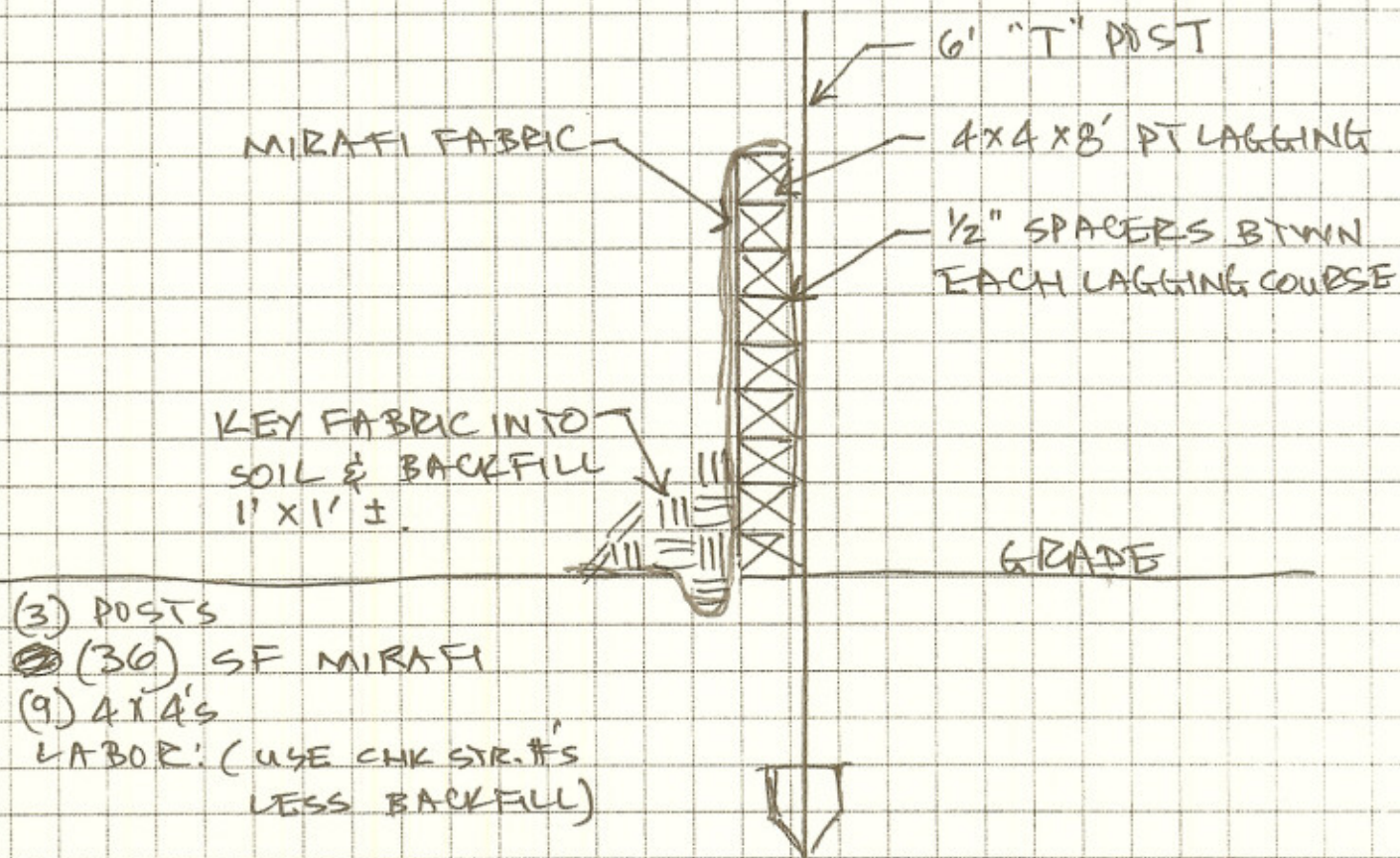
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DATE _____

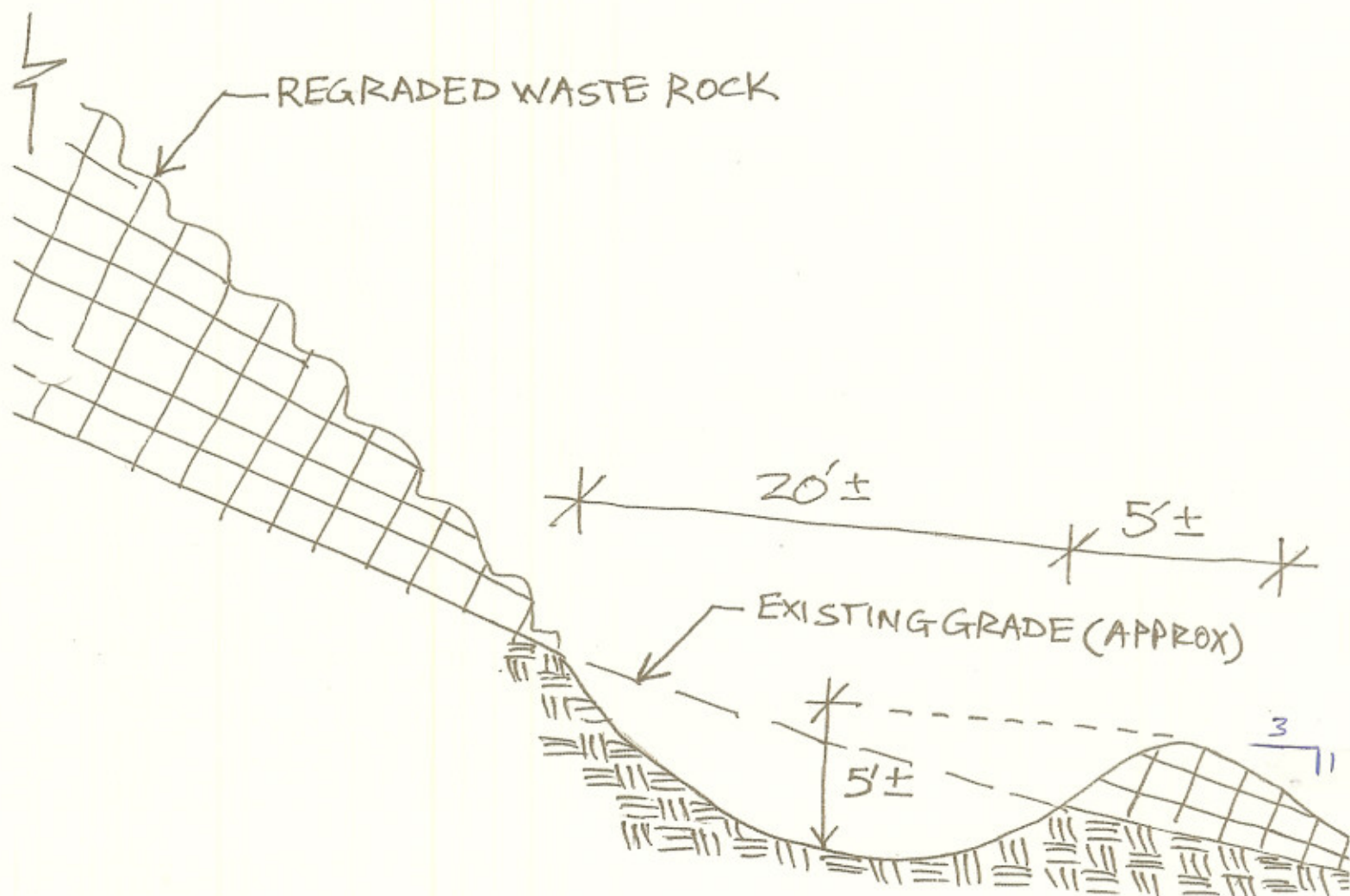
CHECKED BY _____

DATE 03-18-05

SCALE _____



FIREFLY Mine Alternative 2A (Berm Section Sketch)





Au' Autham Ki, Inc.

General Contractors/Construction Management

665 E. Morelos St. • Suite 101 • Chandler, Arizona 85225

(480) 497-1997 Fax: (480) 377-1143

JOB

CHECK STRUCTURE

SHEET NO.

OF

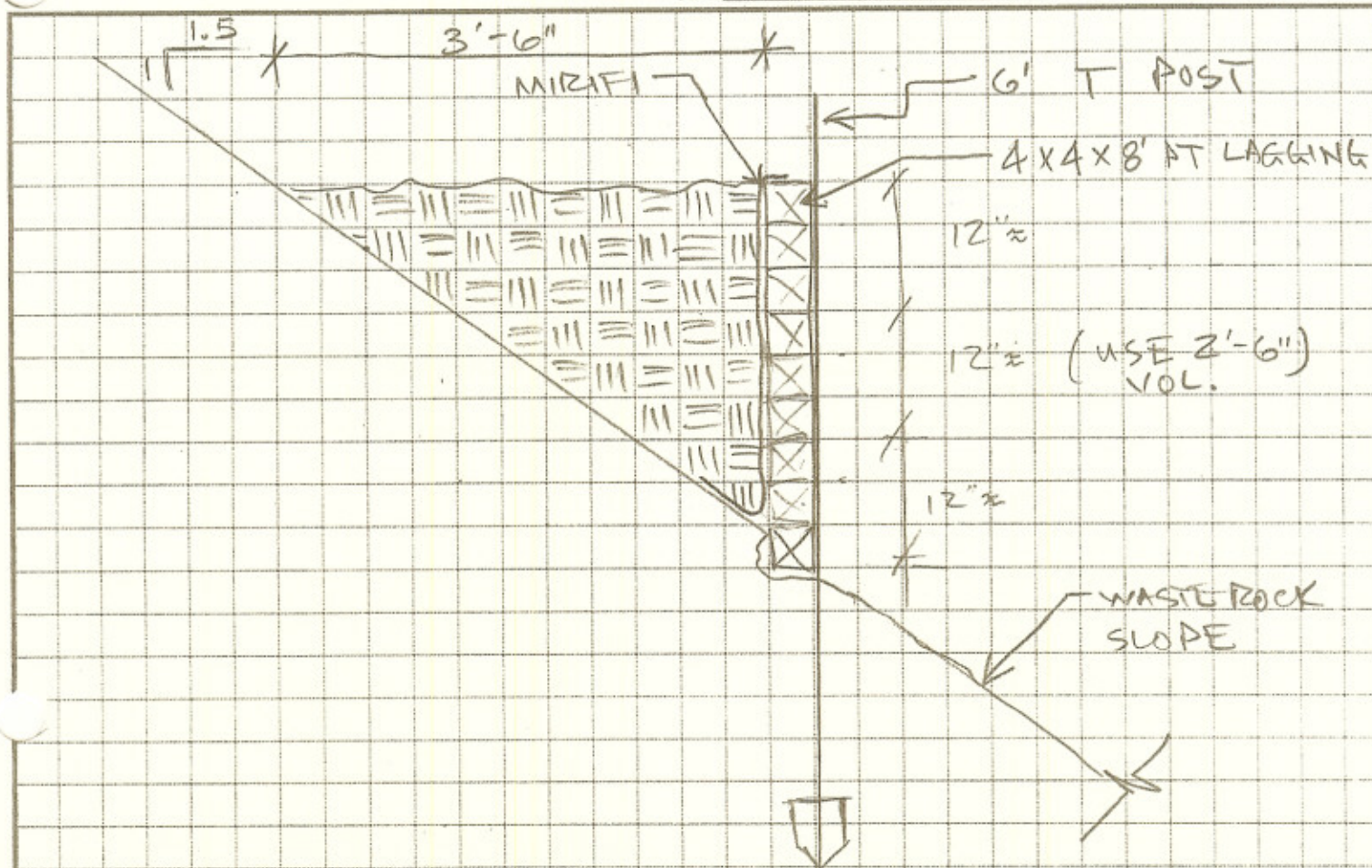
CALCULATED BY

DATE

CHECKED BY

DATE 03-17-05

SCALE



ASSUME 8' LENGTH EACH STRUCTURE:

① (4) POSTS

② 24# MIRIFI

③ (9) 4x4's

④ LABOR:

A) DELIVER/DRIVE POSTS: 1 MH

B) DIG KEYWAY: .5 MH

C) DELIVER/INSTALL 4x4's: 1. MH

D) CUT/INSTALL MIRIFI: .25

E) BACKFILL (1.3 CY's): 4 M's

TOTAL M/H's: 6.75

FOR SUPER SILT FENCE

.75 M/H

.50 "

1.00 "

.25 "

1.00 "

3.5



Au' Autham Ki, Inc.

General Contractors/Construction Management

665 E. Morelos St. • Suite 101 • Chandler, Arizona 85225
(480) 497-1997 Fax: (480) 377-1143

JOB ADIT REBAR/OPENINGS
SHEET NO. _____ OF _____
CALCULATED BY _____ DATE _____
CHECKED BY _____ DATE 03-24-05
SCALE _____

